

# Topical Collection

## Editorial Board Members' Collection Series: Designs of New Generation Vehicles

### Message from the Collection Editors

In response to the growing demand for innovative and sustainable transportation solutions, this Topical Collection seeks to delve into the latest advancements in vehicle design, covering new methods, tools, and processes for both conventional and electric vehicles, as well as for emerging design technologies in intelligent vehicles. We invite contributions that explore a range of critical topics, including but not limited to, the following:

- Advanced design methodologies in optimizing vehicle performance and fuel efficiency;
- Integration of sustainable materials in vehicle manufacturing processes;
- Cutting-edge aerodynamics and lightweighting strategies for improved vehicle dynamics;
- Smart vehicle architectures and the design of advanced driver assistance systems (ADASs);
- Integration and optimization of vehicle powertrains for enhanced energy management;
- Intelligent chassis design focusing on adaptive suspension systems and vehicle stability;
- Vehicle power control systems, emphasizing real-time feedback and predictive algorithms;
- Interactions of driver–road–vehicle;
- Innovative tire designs and interactions of tire–terrain.

---

### Collection Editors

Prof. Dr. Junnian Wang

College of Automotive Engineering, Jilin University, Changchun 130015, China

Prof. Dr. Yuping He

Department of Automotive, Mechanical and Manufacturing Engineering, University of Ontario Institute of Technology, 2000 Simcoe Street North, Oshawa, ON L1H 7K4, Canada

---



## Designs

---

an Open Access Journal  
by MDPI

---

CiteScore 4.8



[mdpi.com/si/222206](https://mdpi.com/si/222206)

*Designs*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[designs@mdpi.com](mailto:designs@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[designs](https://mdpi.com/journal/designs)





# Designs

---

an Open Access Journal  
by MDPI

---

CiteScore 4.8



[mdpi.com/journal/  
designs](https://mdpi.com/journal/designs)



## About the Journal

### Message from the Editor-in-Chief

*Designs* (ISSN 2411-9660) is a peer-reviewed and open access journal which provides a unifying research framework for a wide range of engineering designs of disciplines and industrial applications, including mechanical engineering, electrical engineering, civil engineering, mechatronics, aerospace engineering, bioengineering, energy engineering, industrial engineering and manufacturing systems are of interest. We would like to invite you to contribute to the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Joshua M. Pearce

Department of Electrical & Computer Engineering, Western University,  
London, ON N6A 3K7, Canada

---

### Author Benefits

#### High visibility

: indexed within Scopus, Inspec, Ei Compendex and other databases.

#### Journal Rank:

CiteScore - Q2 (Engineering (miscellaneous))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2025).